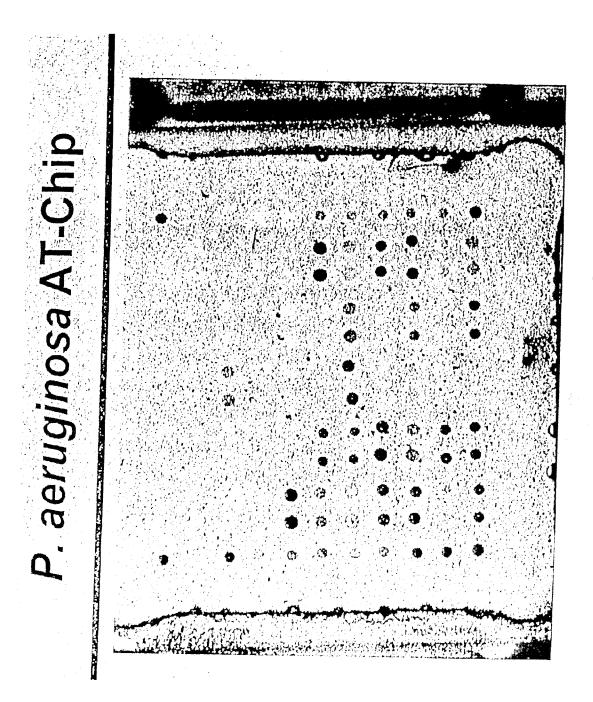
FIGURE 1



ZW117

FIGURE 2

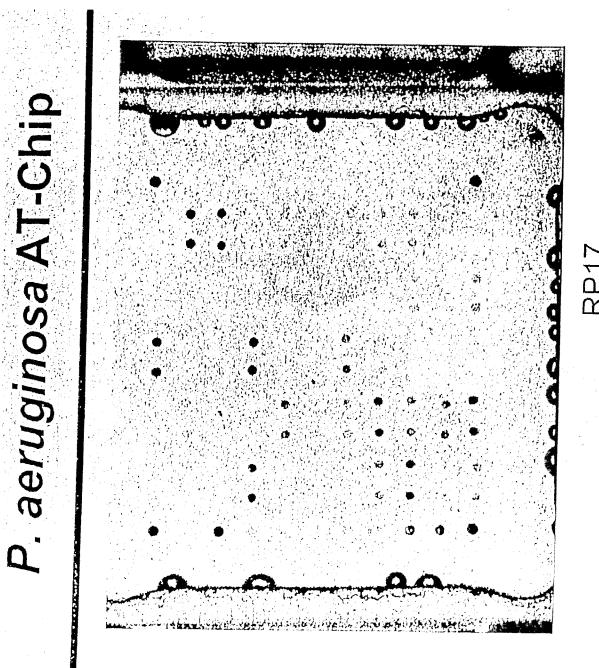


FIGURE 3

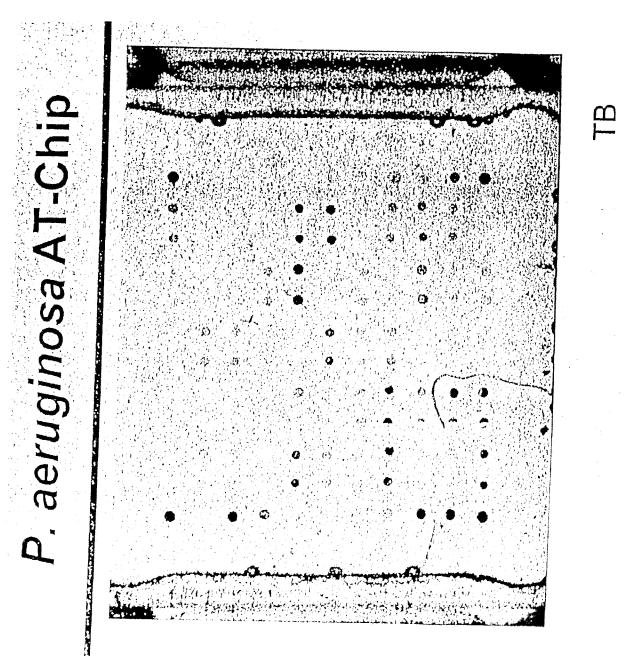
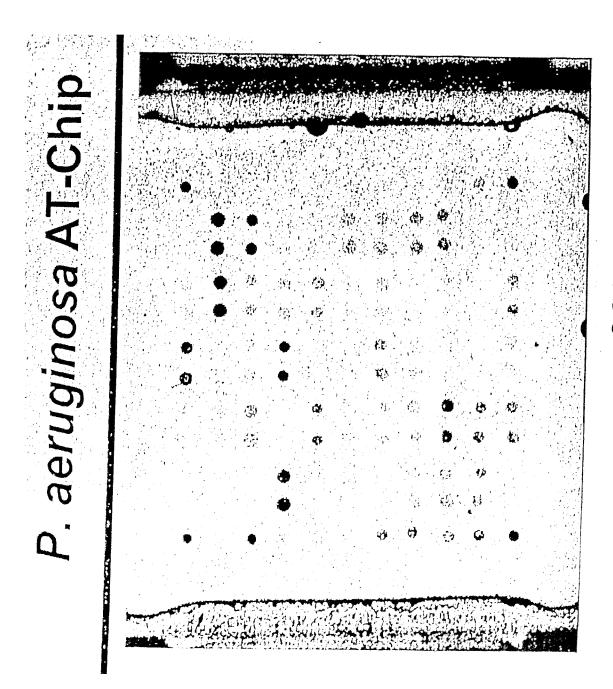


FIGURE 4



SG17M

FIGURE 5

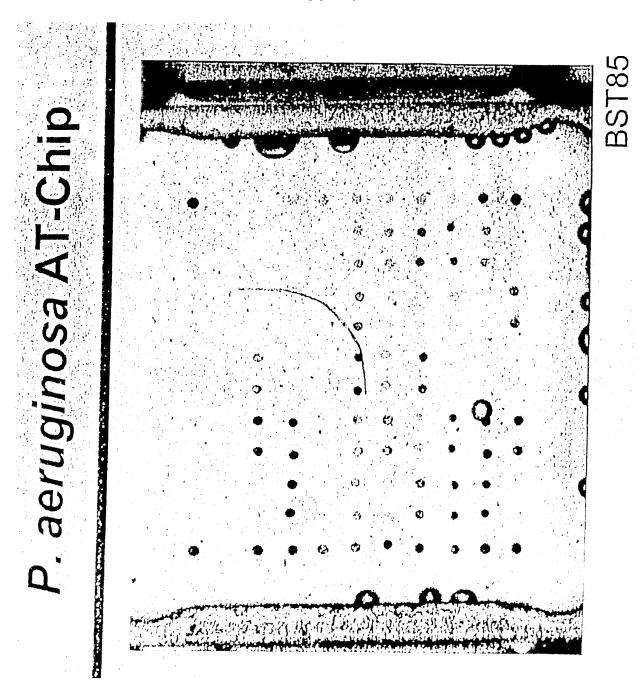


FIGURE 6

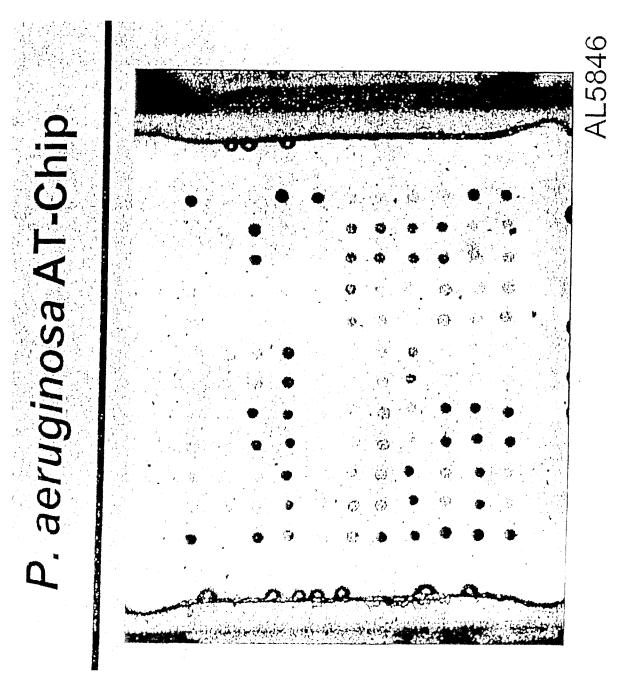


FIGURE 7

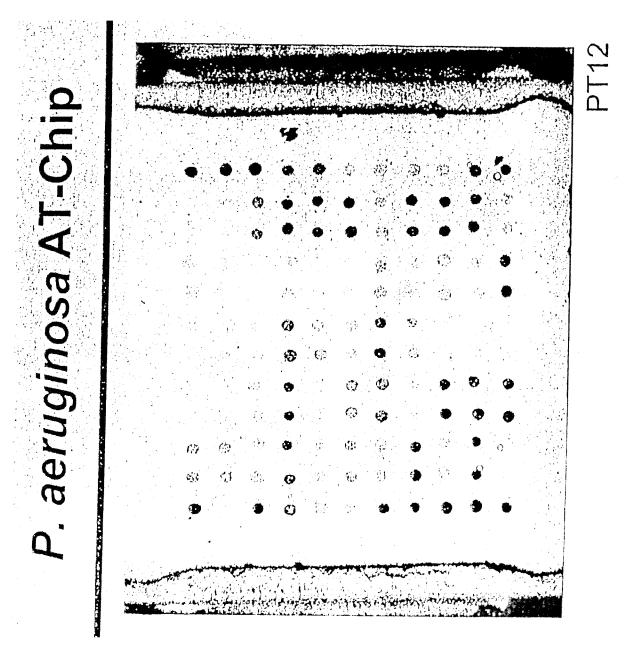


FIGURE 8

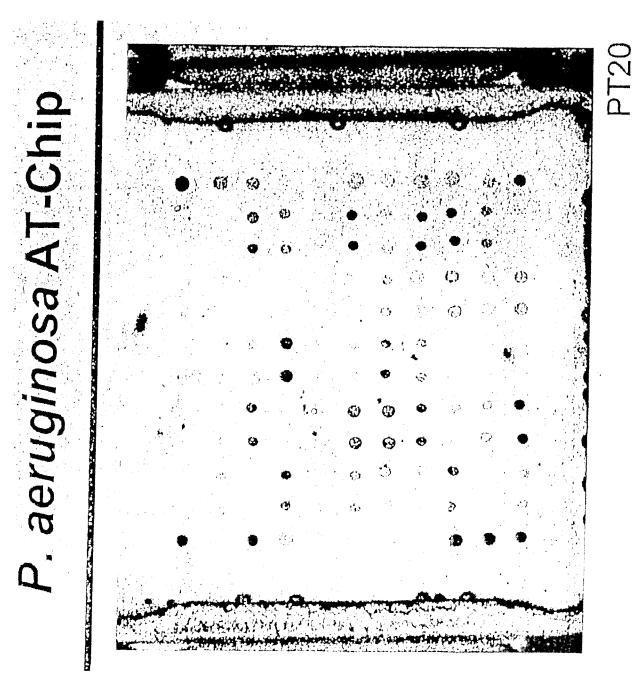


FIGURE 9

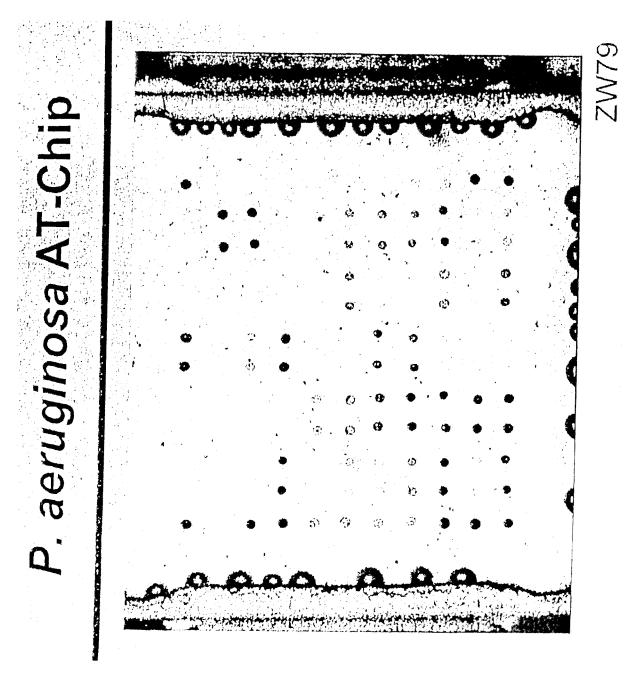
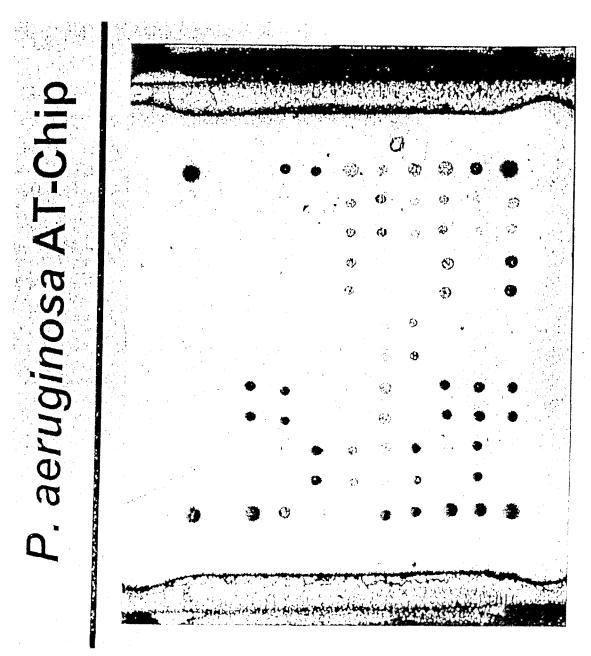
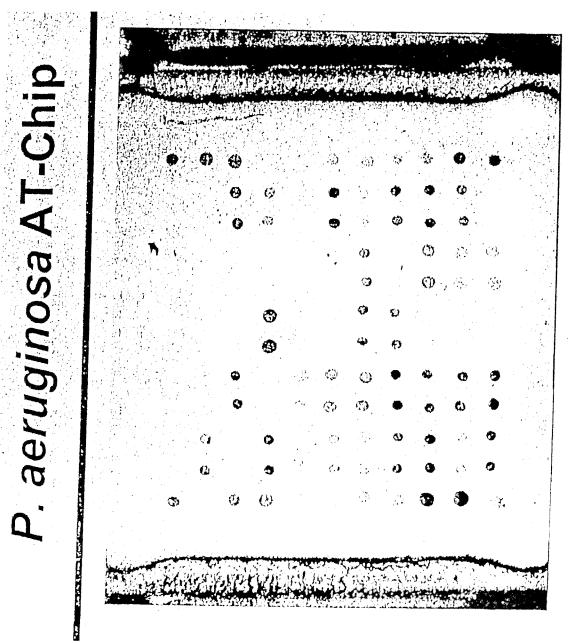


FIGURE 10



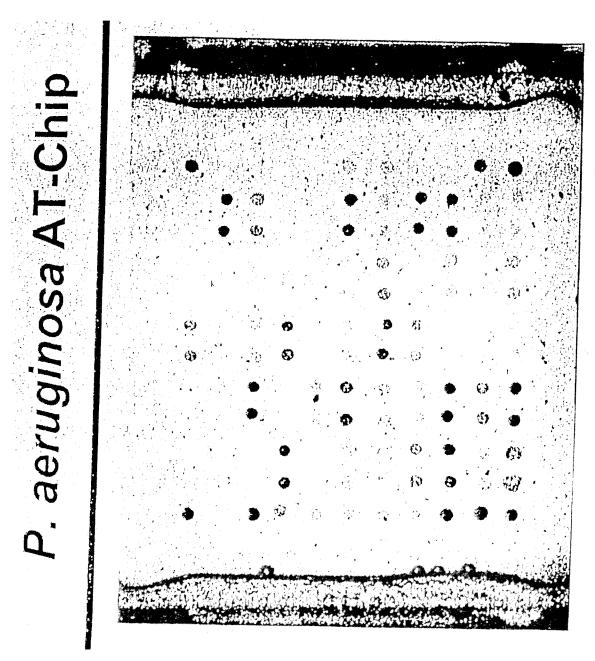
ZW85

FIGURE 11



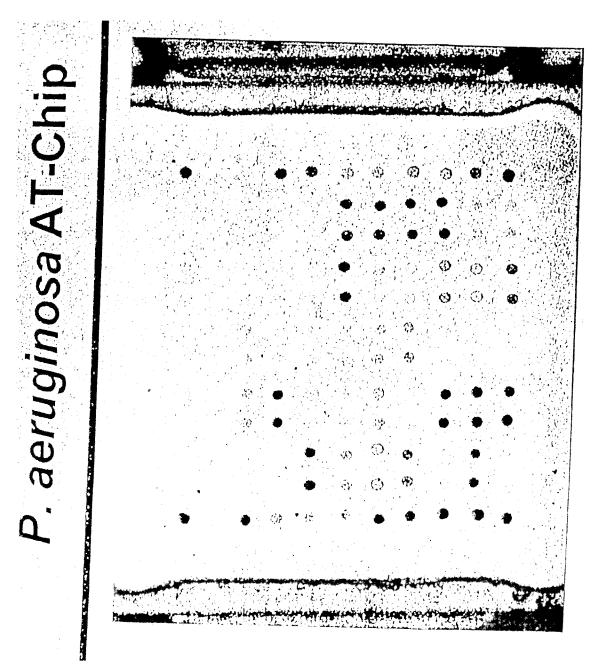
2813A

FIGURE 12



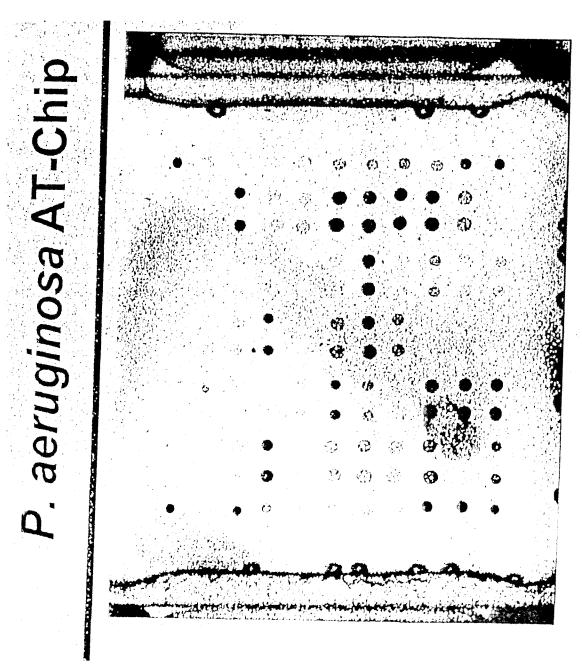
KB1-85

FIGURE 13



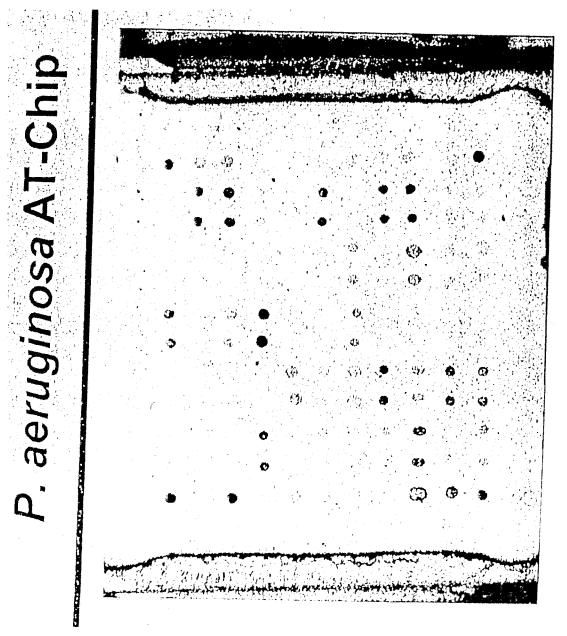
**ZW98** 

FIGURE 14



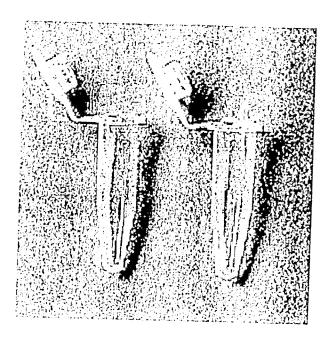
641HD

FIGURE 15



ATCC15522

FIGURE 16



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#### FIGURE 17A

47-1/23 ACGCGGATGTCCTGGATTTGG

47-1/39 CTGAAGAAGGGGCGCTACGCG

47-2/22 GCGTACCGGGCAAGGTGATAG

47-2/52 CTCGGTGAAACATCGGGAGGG

C45/18 TCATCCAGCAAGCCATTGCGC

C45/60a GGAGTCGCTTTCCGCCATCG

C45/60b TGGAGTCGCTTTCCGCCATCG

C46/15 AAGGGCGTTTCACGCTGACGC

C46/22 ATCCGGAAGGGCGTTTCACG

C46/88 TCCACACCTCAGACTTCGGCG

C47-1/43 TATTGACGACCTACCGCGCGC

C47-2/56a GCAACTGATGTTCGCCCAGC

C47-2/56b CGCAACTGATGTTCGCCCAGC

C47-2/59 ACACGCAACTGATGTTCGCCC

CIS-4/36 TGTCCCGGCTCAGTTCAACG

CIS-4/50 AACACCTTGGCGTTTGTCCC

CIS-4/51 GCAACACCTTGGCGTTTGTCC

CIS-5/4 TCAAGCTCGTTGTGGACCGC

CIS-5/48 GTTACGACGGCGTGCTGTCGG

CSP-1/39a ACGCAACGTATTCGGCGACCC

CSP-1/39b CGCAACGTATTCGGCGACCC

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#### FIGURE 17B

fliAT/28

AGCTGATGGTATCGCCGTCGC

fliAT/72

CTAGTGATCGCACCGGAGCC

oriC/20

AGCCTCGACACCGGTTCTCG

oriC/54

TCGTTCATCCCCAGGCTTCG

oriC/59

ACCATCTCGTTCATCCCCAGG

oprL/53

TTCTGAGCCCAGGACTGCTCG

oprL/65

TCGACGCGACGGTTCTGAGCC

fliCb/36

TGACGTTCTCGCCGGTAGCG

fliCb/65

CAGTAGCGGTACCGGTCTGCG

fliCb/66

CAGTAGCGGTACCGGTCTGC

alkAG/27

TTCCTCGCCGGCATAGTAGGC

alkGA/32

alkGA/51

CGAGGACGAGGCATCTTCCGG

citAG/4

GCAGGTAGCAGGTTTCCAGG

citAG/46

AACTGTTCCTTCTGCGCGGCG

citGC/8

TGATCGCCTTGGTCTCGCAGG

citGC/11

GCTGATCGGCTTGGTCTCGC

citGC/75

GAGGCGTTCTGCTCGTGGTCG

oprI/12

TTTTTCCAGCATGCGCAGGG

oprI/17

GCTGGCTTTTTCCAGCATGCG

oprI/22

TTGCGGCTGGCTTTTTCCAGC

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#### FIGURE 17C

am7CA/1

TTGGGATAGTTGCGGTTGGC

am7CA/27

CGTAGGCGATCTTCACCCGC

am7CA/29

TGGCGTAGGCGATCTTCACCC

am3CT/21

GGCGAGATAGCCGAACAGGC

am3CT/22

GCGGCGAGATAGCCGAACAGG

am3CT/69

CACTTGCTGCTCCATGAGCC

am2CT/35

GAGGTCGAGCAGGCTGATGC

am2CT/42

TAGGTCGCGAGGTCGAGCAGG

am2CT/92

GTCCTTCTGCACCGAGTCGG

am1GA/49

CGCATCTTGTCCTGGGTCAGG

am1GA/58

TCGTCGAGGCGCATCTTGTCC

am45/1

ACGTCGAGGTGGGTCTGTTCG

am45/96

GTAGCCTTCGGCATCCAGCG

am6TC/60

TCGGCATTGGGATAGTTGCGG

GI11/15

CCTCCTGTCTCATGCCGATGC

GI11/59

GCATTCGCCACGGAAGGAAGG

GI11/71

GAAGGCATCATGGCATTCGCC

GI18/62

GTCATGGGGTTTCCCAGAGACC

fliCa/41

GATCGCGATGTCGACGGTGCC

fliCa/42

CGATCGCGATGTCGACGGTGC

fliCa/46

TGCCGATCGCGATGTCGACG

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#### FIGURE 17D

SG-1/40

GACGAATACCCAGCTGCGTGG

SG-1/43

GCAGACGAATACCCAGCTGCG

SG-4/1

CGCGACGTCGTGACGTCAGC

SG-4/67

ACTTTCGGCTCTTCGGGCTGG

TB46/21

AGGTAGAGACTCGGGGGAACC

TB46/45

TCGTTTTCGGTCATGGCCAGG

TB471/22

TTCCGCGACGAACATCCGTGG

TB471/25

CGCTTCCGCGACGAACATCCG

TB472/36

GGATCGCTTCCGATAGGGCAGC

TB472/84

AGAGGCATGGGTCTGTACCG

TB473/34

TCTGTCAATCCCCTTTGGGG

TB473/41

AGCCCCTTTCTGTCAATCCCC

TB474/36

GGCTTCCTACCGAAGGTCAGG

TB474/41

TGAGGGCTTCCTACCGAAGG

exoS/31

TTCAAGGTCATGGGCAATGCC

exoS/37

AGTCCCTTCAAGGTCATGGGC

exoU/22

GCCGACTGAGCTGTAGCTCGG

exoU/23

GGCCGACTGAGCTGTAGCTCG

exoU/42

ACCAGACTGGTCAATGGTGG

flins/2

CCCGTGTTTCCGTAGACCTTGC

pKL11/49a

AGCAGTTACCCACAGCATGG

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#### FIGURE 17E

pKL11/49b

CAGCAGTTACCCACAGCATGG

pKL3/47

CTACACTCCAACCGCTGGTCC

pKL3/50

GACCTACACTCCAACCGCTGG

pKL3/80

TTCCCTTGCTGCCGAGAAGC

pKL7/14

TAATAGGCGAGCCTGCCGTCC

47D7nwla

TCCACGCCGAGGGACGTGCC

47D7nwlb

GCTCCACGCCGAGGGACGTGCC

C46-nwla

CGCGGTGCTGGTTGCGCTGC

C46-nw1b

CCAATGCCCAGGGCCAGCGGA

C46-nw1c

CGCTGGCAGTTCCGCTGGCC

ExoSnw1a

CAGGGTCGCCAGCTCGCTCGCC

ExoSnwlb

AGGGTCGCCAGCTCGCTCGC

ExoUnwla

AGTGATCTGCCGCGGCCCTGCC

ExoUnwlb

GTGATCTGCCGCGGCCCTGC

OrfA-1

GTTCCACAGGCGCTGCGGCGC

OrfA-2

GTTCCACAGGCGCTGCGGCG

OrfA-3

CAAAGCCCCTGGTCGCGCGG

OrfC-1

GCAGCTTTTCCACCGCCGGCGG

OrfI-1

AAACTGCCCCGCCCCCCATCC

OrfI-2

GGAAAAACTGCCCCGCCCCCC

OrfJ-1

ACGCTCGCAGCGCCTCACGCG

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# FIGURE 17F

OrfJ-2 GGCCTGGCTGCGAACGCTCGC

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# FIGURE 18A

Č	spot-ID's  14,15  14,15  16,17  18,19  20,21  10,11  22,23  26,27  38,39  28,29  40,41  30,31  44,45  34,35  65,63  62,63	54,55
GC- content Tm [%]	7.3] [°C] 7.3] [°C] 5.5.62,72,62,73 5.5.64,2 6.9.6 6.0 7.3.0 72,8 7.5.0 73,0 7.5.0 73,0 7.5.0 73,0 60,9 66,0 60,9 66,0 63,6 65,8 7.6.0 74,5 7.3.1 74,3 63,6 65,8 60,9 66,0 7.3.1 74,3 63,6 65,8 60,9 66,0 7.3.1 74,3 63,6 65,8 60,9 66,0 7.3.1 74,3 63,6 65,8	63,6 65,8
group length	iengun [ 23 23 23 24 25 25 26 26 27 28 28 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	22
5'-3'-sequence	AATTGCCTCTTTCCCCGGGGCTTTTCCGGGGGGGGGGGG	J009J));;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
กลราล	oric T-c_wt   Sort oric   oric T-c_wt   Sort   oprl T-c_wt   oprl T-c_wt	
্ষ্বাস) তেও	7 Pa.S. 2001/2  2 Pa.S. 2016  3 Pa.S. 2016  5 Pa.S. 2019  6 Pa.S. 2019  7 Pa.S. 2019	

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# FIGURE 18B

79'99 79'99	68,69 68,59	70,71 74,75 66,87	88.69 78,79	90,91 20,80,81 92,93 92,83	94,95	122/23 122/23 100/101 112,113 124,125	102,103 114,115 104,105 116,117 106,107 126,127 128,129
63,6 65,8 58,3 66,1	60,9 66,0 68,2 67,7	63.6 65.8 58 <mark>33 66</mark> ,755 56,5 64,2	68,2°67,7°°°° 58,3°66,1 554,2°64,4°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	1.54(3) (A.2.24)	58,3 66,1 54,2,64,4,2,5,5,5 58,3 66,1	54,2 64,4 54,2 64,4 52,0 64,6	58,3 66,1 68,2 68,3 66,1 64,4 65,3 66,1 654,4 54,2 64,4 54,2 64,4 58,3 66,1
22 24	23	22 22 <b>4</b> 23	22 24 24 24 24 24 24 24 24 24 24 24 24 2	.24 24 224	24 24 24	24 24 24 25	24 24 24 24 24 24 24
<del></del>	<b>4</b> 4		. w	5 6	6 7 7	<b>ထ</b> ်ကြော် တ တ	10 10 13 13
TGGAGCAGCAACTGTTCCCGGC Gaacaagaccggttccaccaacgg	ARÇANGROUGOUTCOACCAAOGG Gubacotebbootebatoot	GOGACCTGGGACTGGTGATCCT GCGACCAACTCGAACTCCAAGTCGTGGTGGTGGTGGTGGTGGTTCGTTC		GTAGGGGAGTGGAGGGGAATGATHE		HOTIGATION OF CONTRACTOR CONTRACT	COCTACTO COCTTACTO COCCTTACTO COCCTACTO COCCTACTO
	9.50_0.28 8.45_0.58	30 Pa-S_00 A_mu_1 31 Pa-S_001 fliC b 32 Pa-S_002 fliC a 33 Pa-S_000 exoS-1	7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	37 Pa.S_c40_47D7-1 58 Pa.S_c41 47D7-2 39 Pa.S_c54 C-45	47. Pa-S_035	Pa-6, 045 Pa-6, 045 Pa-6, 045 Pa-6, 045	, i i i i

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# FIGURE 18C

55	Pa-S_052	55 Pa-S_052 TB-C47-4	CGCTGCACATACAGGTCCGTTCTC	13	24	54,2	64,4	130,131
26	Biotin + Cy:	3-marker					•	1,12,97,121,132
22	Pa-S_081	oriC T-C_wt_1	AGCCCAGCAATIGCGTGTTTCTCCG	~	25	65,6	56	
28	Pa-S_082	oriC T-C_mut_2	AGCCCAGCAACIGCGIGITICICC	~	24	65,1	28	
29	Pa-S_083	alkB2 G-A_wt_2	GCTGCTGGCGGTGTGC		19	67,4	79	6,8
09	Pa-S_084	alkB2 G-A_mut_2	TGCTGCTGCCAGCGGTGTGCT		21	67,3	67	20,21
19	Pa-S_085	oprl T-C_wt_2	CAGAAAGCTCAGCAGACTGCTGACGAG		27	64,6	56	
62	Pa-S_086	oprl T-C_mut_2	GAAAGCTCAGCAGACCGCTGACGAG		25	64,9	90	
83	Pa-S_087	ampC_1 G-A_wt_2 ampC_1 G-	ACGGCCGCGGTGACGCC		19	70,2	84	
64	64 Pa-S_088	A_mut_2	ACGCCGCCAGGTGACGCCG		20	6'69	80	
65	Pa-S_089	ampC_3 C-T_wt_1 ampC_3 C-	GCCGACCTACGCGCCGGGC		19	68,4	84	
99	66 Pa-S_090	T_mut_2	AGCCGACCTATGCGCCGGGCA		21	68,4	7.1	
29	Pa-S_091	ampC_4 G-A_wt_2	GTTCGAACGCTCATGGAGCAGCA		24	65	28	
89	68 Pa-S_092	A_mut_2	GTTCGAACGACTCATGGAGCAGCAAG		26	63.5	54	
69	Pa-S_093	exoS-1_1	CAGCCCAGTCAGGACGCGCA		20	64,9	20	
20	Pa-S_094	exoU_1	AGTGACGTGCGTTTCAGCAGTCCC		24	64,8	28	
11	Pa-S_095	47D7-1_1	GTGTCACGGCCCATGTCTAGCAGC		24	65	83	
72	Pa-S_096	C-46_1	CGAAGTCTGAGGTGTGGACCCGC		23	64,5	65	
73	73 Pa-S_097	Fla-Insel-2_orfA	CGCTGGAGGGTATGTTCCGCAAGG		24	64,8	63	
74	74 Pa-S_098	Fla-Insel-2_orfC	CGTACTCAGCTTCTCCACCCAGCG		24	64,3	63	
75	75 Pa-S_099	Fla-Insel-2_orfl	CCTGGACCTCTCCAAGGTTCGCCT		24	65	63	
76	Pa-S_100	Fla-Insel-2_orfJ	GCCATTCCGACGACCAACAAGGC		24	64,2	58	

group "mother"

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# FIGURE 19A

	spot- (D's		Sec. 22.33	14,15	13, 25	37,49	. 41 73	16.17	. 6	18,19	6,8	20,21	10,11	22,23	26,27	38,39	28,29	40,41	30,31	42.43	61.73	24.85	32,33	<u> </u>	44,45	34,35	78.47	50.51	62,63
Į.	ΕΩ̈́	Market Salar Salar	% 0.2,4 <u>%</u>	Õ	56	58	9,69			8'59	79	29	72,8	73,0	64,4	0,39	63,2	63,2	0'99		56			ć	SS	65,8	68.0	71.4	71,3
-00 -00 -00 -00 -00 -00 -00 -00 -00 -00		物學		20,2	65,6	65,1	9'69	73,9	63,6	63,6	67,4	67,3	72,0	75,0	54,2	6'09	46,2	46,2	6'09	63,6	64,6	64,9	70,2	0	6,80 6,80	9'69	609	77,3	73,9
		1	ું કર્યું કર્યું છે. જ	3. 9	52	24	23	23	22	22	<u>0</u>	73	25	24	24	23	26	26	23	22	27	25	19	Ċ	7	22	23	22	23
	group length			,	<del>-</del> -	<del></del>	<b>1</b> ~~	<b>*</b>	•	44	Arra	<del></del>	<del></del>	4	~	τ	<b>4</b>	Arm	τ	₩	****	٠-	<b>4</b>	*		۲-	<del>-</del>	τ-	*
	5-3-sequence	GARGOCCARCARTEGER CONTRACTOR CONT		かくしているとしている。				Garactecaecerrecees	CARACA LOCOCOS GOOG GOOD CARACA		ブラーウィウのブウのブリフィナントトア ブラーウィウのブウのブリフィナントトア	TURTUTOTORIORIO CONTROLO CONTR	からコフィンタンははファフィーチェアファフィファンはでした。		のこのでは、これでは、これでは、これでは、これでは、これでは、これでは、これでは、これ	(	COMPANY OF THE CANDANGER CONTRACTOR	HEDEROLEGICAL CALCACERCAN AND TO CALCACE CONTROLEGICAL CALCACERCAN AND THE CALCACERCACERCAN AND THE CALCACERCACERCAN AND THE CALCACERCACERCACERCAN	SOCIOL SECTION OF THE	ASSTRUCTED ASSTRUCTION OF COMMENTAL ASSTRUCTIO	CHSHAGCICAGCAGACIGCIGACGAG		1 ALECHOROCGGGTGACGC	ÄGGGGGGGAGGTGACGCGG	(	うつばらしてのフェファクラウィア・エン・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	GACAAGATGCGTCTCGACGACCG	AGUCGACCTACGCGCGCGCGG	CAGCCGACCTAIGCGCCGGGCAG
	กลุกเช	oric T.C.wt	ord Tro_mut_1	OFF TAIL SELECTION	effC T-C milt o		Į.				alkB2 G-A min	alkB2 A-G wt 1	alkB2 A-G mut 1	व्यक्तिक हा स	CitS A-G mut 1	oits G.C. W. 1	Cits G-C aut 1	ogr  7-0 wf 1					ampC 1.6-	A mut 2	ampC 2 C-T W	empo_2 c.	T_mut_1		T inter
٠.	.52 4.5 .33	Pa-S_031	Pa S 1056	Fa-S. Call	(2) S-84	750 8.53	5 % 5 % 6 % 6 %		72-5-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Pa-S_133	Pa-5_084	Pa-5_(63	Pa-S_064	Pa-S_065	Pa-S_655	Pa-8_037	Pa-S_Cas	800 8-86	Pa-8.070	250 S.EG	20 0 5 EC	100 N. C.		Pa-5_033	Pa-S_019.		62.5.073	70.00	Pa-S_074
त्रक्ष	<u></u>	<b>X</b> m.,	C1	f.s. 175	(호) 일기	er,	. **	t <sub>e</sub>	زيا	9	() (0)	ij	2	No.	(·	19	· }-	(/)	(r)	<b>~</b>	es 10	- m 10		<b>₩</b>	<u></u>		(S) = 5		61

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# FIGURE 19B

Pa-S_030	1 19 68,4 84 35,48	1 21 68,4 71 60,72 1 24 65 58 52,53	1 26 63, <b>5</b> 54 64.65 1 22 63,6 65,8 54,55	1 22 63,6 65,8 66,67 1 24 58,3 66,1 56,57	୍ଷ୍ଟି କ୍ଷ୍ମ ଓଡ଼ିଆ	1 22 63,6 65,8 70,71 2) 24 58 3 66,1 74,75	2 23 56,5 64,2 86,87	5 24 58 58 58 58 58 58 73 58 88 89 58 58 58 58 58 58 58 58 58 58 58 58 58	58	54.2 64.4 78.79	66,1		6 24 58,3 66,1 94,95	6 23 64,5 65 108,120	54,5	24 58,3 66,1 110,111 8 58,3 56,1 122,123	9 24 4 100,101	
ampc_3 C-T_wt_ampc_3 C-T_wt_ampc_3 C-T_wt_ampc_4 G-A_wt_ampc_4 G-A_wt_ampc_5 G-C_wt_ampc_5 G-C_wt_ampc_6 T-C_wt_ampc_7 C-A_wt_ampc_7 C-A_wt_am	GCCGACCIACGCGCCGGGC	ASCCGACCTATGCGCCGGGCA GTTCGAACGGCTCATGGAGCAGCA	GTTCGAACGACTCATGGAGCAGCAAG TGGAGCAAGTGTTCCCGGC	TGGAGCAGCAACTGTTCCCGGC GarcaagaccGGTTCCaccaacGG	AACAAGAGGGTTGCAGGGGGGGGGGGGGGGGGGGGGGGG	GCGACCTGGGACTGGTGATCCT	41.040164AGGGCACCTACTTCA GAGGGCACTCAGGACGCGGAGGAGAGA	104 104		747777 7400000	SCATIGONA ACCETTOONA ACCETTOONA	ひでかりておようなが	りばいりりいいけい	クークタギクィン・ケークに使したして、	4)4451 1001451		1つばばり1	
Pa. S. 0810 Pa. S.		T_mut_2 ampC_4 G-A_wt_ ampC_4 G-	A_mut_2 ampC_5 G-C ampC_5 G-	mut_1 PC_6 T-C_ BC_6 T-C_	C_mut_1 ampC_7 C-A ampC_7 C-A	₹ 🗒	e X		C47-14/2012	4707-1	27075 2015	0.46 0.46	0.48	C-Inselspez4	C-Inselspez5	C-spezifisch-1		
क्रिक्ट के स्था है		یات مشا				Pa-S_C63	Pa-S_C93	Pars 034	F4.5 038	Pas (35.			950 S-56	Pa-S_035	Pa-S_036	Pa.S. 037	(a)	1

# FIGURE 19C

CCCGTTGCTCATAACCCGTTCCTGGGGGGGGGGGGGGGG	
SG17M-1 SG17M-4 fla-insel-1 TB-C47-3 TB-C47-4 Fla-insel-2_orfA Fla-insel-2_orfI Fla-insel-2_orfI Fla-insel-2_orfI Fla-insel-2_orfI Fla-insel-2_orfI	
49 Pa-S_047 SG17M-4 51 Pa-S_053 Ra-insel-7 54 Pa-S_051 TB-C47-3 55 Pa-S_057 Fla-Insel-7 73 Pa-S_057 Fla-Insel-7 74 Pa-S_058 Fla-Insel-7 75 Pa-S_059 Fla-Insel-7 75 Pa-S_059 Fla-Insel-2	The second of the second
\$ \$ 2 2 4 5 5 5 5 5 5 8 8 P	

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FIGURE 20

# Chip: MHH\_P\_aer\_array2 (12x11 array with spot distance of 19.00 mm)

56	43	43	46	46	76	76	54	54	55	55	56
	42	42	74	74	48	48	50	50	75	75	72
56	41	41	44	44	47	47	49	49	51	51	72
62	32	32	34	34	73	73	38	38	40	40	70
61	31	31	69	69	35	35	71	71	39	39	70
61	22	22	68	68	26	26	28	28	30	30	66
58	21	21	67	67	25	25	27	27	29	29	66
58	12	12	14	14	16	16	64	64	20	20	65
57	11	11	13	13	15	15	63	63	19	19	65
57	2	2	4	4	6	6	60	60	10	10	62
56	1	1	3	3	5	5	59	59	9	9	56

FIGURE 21

opri T-C mut 2 mut\_2 ampc\_3 c-T wt\_1 ampc\_3 c-T mut\_2 ampC\_3 C-T marker spot marker spot exoU 1 0.46\_1 C-46 1 exoU\_1 wt 1 mut\_1 ampC\_7 C-A Fla-Insel-2 orfl mut\_1 ampC\_2 C-T alkB2 A-G TB-C47-4 fla-Insel-1 net 1 wt 1 C-46 545 ¥ ₹ mut\_2 ampC\_1 G-A wt\_2 mut\_1 ampC\_6 T-C wt mut\_2 alkB2 G-A SG17M-4 47D7-1 1 TB-C47-3 SG17M-1 47D7-2 wt 2 mut\_1 ampc\_5 G-C wt\_1 Fla-Insel-2 orfA Fla-Insel-2 orfJ flic a A-T mut\_1 oprl T-C PAGI-1-8 PAGI-1-1 C47-1 mut\_1 K X Wt 1 Fla-Insel-2 orfC ampC\_4 G-A wt\_2 mut\_1 oprL\_T-C wt\_1 mut\_1 citS G-C exoS-1 1 mut\_2 pKL-11 pKL-3 ∩oxa ₩, C-Inselspezifisch-5 C-Inselspezifisch-4 C-spezifisch-1 ampC\_3 C-T mut\_1 citS A-G mut\_1 oriC T-C mut\_1 flic A Tic B ¥ ĸ marker spot marker spot marker spot mut\_2 oriC T-C mut\_2 oriC T-C wt\_2 oprl T-C wt\_1 oric T-c opri T-C mut\_2 wt 2 ¥

Chip occupancy

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